



Approval #

980024-U
(Replaces 920057-U)

Safety & Buildings Division
201 West Washington Avenue
P.O. Box 2689
Madison, WI 53701

Wisconsin Material Approval

Material

Secondary Containment Vessel

Manufacturer

Marshfield Wilbert Vault Works, Inc.
109 East 9th Street
Marshfield, Wisconsin 54449

SCOPE OF EVALUATION

The secondary containment vessel manufactured by Marshfield Wilbert Vault Works, Inc. has been evaluated for use as a secondary containment for aboveground tanks in accordance with **s. ILHR 10.345(1)**. It was also evaluated against the vehicle collision protection requirements of **s.10.415(8)** of the current edition of the Wisconsin Administrative Flammable and Combustible Liquids Code.

DESCRIPTION AND USE

The secondary containment vessels are made of steel-reinforced precast concrete. Rainwater is removed from the dike by means of a dike-mounted, manually primed siphon hose. Anchor bolts are provided at the top for use in tying down the tank. The vessel is sized at 753 gallons, with interior dimensions of 8 feet long by 6 feet wide by 2 feet deep. The floor is 4 inches thick. The walls are 5 inches thick at the bottom and 3 inches thick at the top.

TESTS AND RESULTS

Compression tests on the concrete used in a group of vaults are on file with the department..

Calculations are on file showing conformance with the vehicle collision requirements of **s.ILHR 10.415(8)**.

LIMITATIONS OF APPROVAL

The vessels are approved in accordance with **s. ILHR 10.345(1)(a)**, to contain tanks no larger than 600 gallon capacity.

Additional vehicle collision protection, such as posts or rails in accordance with **s.ILHR 10.415(8)** is not required, provided the tank is fastened with anchor bolts in the center of the vessel and shear valves, flexible connectors or other protective devices are installed on product and/or electrical lines to assure adequate system flexibility should the system be displaced by collision.

The vessels shall be sized to provide sufficient clearance for visual inspection when the tank bottom is elevated at least 1 foot above the dike floor and the tank is no more than 6 feet in length in accordance with **s. ILHR 10.415(13)(a)1**.

Unusual or heavy traffic patterns may require additional visual warning or collision protection.

The siphon system, as described by the manufacturer, meets the requirements of **s. ILHR 10.345(1)(b)**.

This approval will be valid through December 31, 2003, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Reviewed by: _____

Approval Date: _____ By: _____

Duane D. Hubeler
Mechanical Code Consultant
Program Development Bureau